

CLAIMS

1. A single-piece adapter for supplying gas to a gas detector that contains at least one gas sensor and that has a gas inlet for allowing gas at the inlet to come into contact with the at least one sensor, which adapter comprises:
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- a chamber having an opening for fitting over the gas inlet of a gas detector, the chamber having an inner surface,
 - an inlet duct for feeding gas into the chamber in a direction transverse to the opening, and
 - 10 • an outlet to vent gases from within the chamber,
- wherein the inner surface of the chamber is formed by a first moulding of a rigid, non-absorbent material and a second moulding of resilient material and wherein the second moulding forms the part of the surface surrounding the said opening.
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2. An adapter as claimed in claim 1, wherein the interface between the first and the second mouldings on the inner chamber wall is arranged to engage the gas detector to form a seal isolating the chamber from the ambient atmosphere.
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3. An adapter as claimed in claim 1 or claim 2, wherein only the edge of the interface between the first and second mouldings is exposed to the gas within the chamber.
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4. An adapter as claimed in any preceding claim, wherein the gas inlet duct and the gas outlet are in line with each other and a baffle is provided between the inlet duct and the outlet to prevent gas passing directly from the inlet to the outlet.

5. An adapter as claimed in any preceding claim, wherein the cross sectional area of the outlet is greater than the cross sectional area of the inlet duct.
6. An adapter as claimed in any preceding claim, wherein the second
5 moulding of compliant material extends substantially over the whole of the outer surface of the adapter, except for the inlet duct and the outlet.
7. An adapter as claimed in any preceding claim, wherein the second
10 moulding is an over-moulding of the first moulding.
8. A method of supplying gas to a gas detector that contains at least one gas sensor and that has a gas inlet for allowing gas at the inlet to come into contact with the at least one sensor, which method comprises providing an
15 adapter that comprises a chamber having an opening, a gas inlet duct and an outlet, placing the opening of the adapter over the gas inlet of the gas detector to form a seal between the adapter and the detector to isolate the chamber from the atmosphere, wherein the inner surface of the chamber is formed by a first moulding of a rigid, non-gas absorbent material and a second moulding of resilient material, the second moulding forming the
20 part of the surface surrounding the said opening.
9. A method as claimed in claim 8, wherein the interface between the first and the second mouldings on the inner chamber surface engages the gas
25 detector to form the seal isolating the chamber from the ambient atmosphere.
10. A method as claimed in claim 9, wherein only the edge of the interface between the first and second mouldings is exposed to the gas within the chamber.

- 5 11. A method as claimed in any of claims 8 to 10, wherein the gas inlet duct and the gas outlet are in line with each other and a baffle is provided between the inlet duct and the outlet to prevent gas passing directly from the inlet to the outlet.